

Appendix D

Table D18. Delivered Energy Consumption in Brazil by End-Use Sector and Fuel, 2003-2030
 (Quadrillion Btu)

Sector/Fuel	2003	Projections					Average Annual Percent Change, 2003-2030
		2010	2015	2020	2025	2030	
Residential							
Oil	0.3	0.4	0.4	0.5	0.5	0.6	2.6
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	4.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.3	0.5	0.5	0.6	0.6	0.7	3.2
Heat	0.0	0.0	0.0	0.0	0.0	0.0	—
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	0.6	0.9	1.0	1.1	1.2	1.3	2.9
Commercial							
Oil	0.1	0.1	0.1	0.1	0.1	0.1	2.0
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	2.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.3	0.5	0.6	0.7	0.9	1.0	4.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	—
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	—
Total	0.4	0.6	0.7	0.9	1.0	1.1	4.1
Industrial							
Oil	1.6	1.9	2.1	2.4	2.6	2.7	2.0
Natural Gas	0.4	0.5	0.6	0.6	0.7	0.8	2.7
Coal	0.4	0.5	0.5	0.5	0.5	0.6	1.5
Electricity	0.7	0.8	0.9	1.1	1.2	1.3	2.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	—
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	-2.3
Total	3.1	3.7	4.2	4.6	5.1	5.5	2.1
Transportation							
Oil	2.3	2.5	2.6	2.7	2.9	3.2	1.2
Natural Gas	0.0	0.0	0.0	0.0	0.1	0.1	1.3
Coal	0.0	0.0	0.0	0.0	0.0	0.0	—
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	1.8
Renewables	0.2	0.3	0.3	0.3	0.3	0.3	1.5
Total	2.5	2.8	2.9	3.0	3.3	3.6	1.3
All End-Use Sectors							
Oil	4.2	4.8	5.2	5.6	6.2	6.6	1.7
Natural Gas	0.5	0.6	0.6	0.7	0.8	0.9	2.6
Coal	0.4	0.5	0.5	0.5	0.5	0.6	1.5
Electricity	1.3	1.8	2.1	2.4	2.7	3.0	3.2
Heat	0.0	0.0	0.0	0.0	0.0	0.0	—
Renewables	0.3	0.3	0.3	0.3	0.3	0.4	1.1
Delivered Energy	6.6	7.9	8.8	9.5	10.5	11.4	2.1
Electricity-Related Losses	2.1	2.9	3.6	4.3	5.0	5.7	3.8
Total	8.7	10.8	12.4	13.8	15.5	17.2	2.5
Electric Power^a							
Oil	0.1	0.1	0.1	0.2	0.2	0.2	2.3
Natural Gas	0.1	0.4	0.5	0.5	0.6	0.8	9.8
Coal	0.1	0.1	0.2	0.3	0.3	0.3	6.1
Nuclear	0.1	0.1	0.2	0.2	0.2	0.2	1.2
Renewables	3.0	3.9	4.7	5.5	6.3	7.2	3.3
Total	3.4	4.7	5.7	6.7	7.7	8.7	3.6
Total Energy Consumption							
Oil	4.3	4.9	5.4	5.8	6.3	6.8	1.7
Natural Gas	0.5	1.0	1.1	1.2	1.4	1.7	4.6
Coal	0.5	0.6	0.7	0.8	0.8	0.9	2.4
Nuclear	0.1	0.1	0.2	0.2	0.2	0.2	1.2
Renewables	3.3	4.2	5.0	5.8	6.7	7.6	3.2
Total	8.8	10.8	12.4	13.8	15.5	17.2	2.5

^aFuel inputs used in the production of electricity and heat at central-station generators.

Sources: **2003:** Derived from Energy Information Administration (EIA), *International Energy Annual 2003* (May-July 2005), web site www.eia.doe.gov/iea/. **Projections:** EIA, System for the Analysis of Global Energy Markets (2006).